

TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

Title V Permit Number	135 - 0135 - TV
Client/ Sequence /Town/Premises Numbers	5244/1/135/117
Date Issued	October 6, 2004
Expiration Date	October 6, 2009

Expiration Date	October 6, 2009	
Corporation:		
United Aluminum Corpo	pration	
Premises Location:		
100 United Drive, North	Haven, CT 06473	
Name of Responsible Official and	l Title:	
John Lapides, President		
All the following attached pages, 2 the Permit.	arough 25, are hereby incorporated by reference into the	iis Title V Operatin
JANE K. STAHL	10/6/04	

Date

Jane K. Stahl

Acting Commissioner

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LIST OF ACRONYMS

Acronym Description

AOS Alternative Operating Scenario
ASC Actual Stack Concentration

amps Amperes

ASTM American Society for Testing and Materials

CAA Clean Air Act

CFR Code of Federal Regulations
CGS Connecticut General Statutes

CO Carbon Monoxide °F Degrees Fahrenheit

DEP Department of Environmental Protection

EU Emission Unit

EPA Environmental Protection Agency

 $\begin{array}{ccc} ft & & Feet \\ ft^3 & & Feet Cubed \\ gal & & Gallon \end{array}$

GEU Grouped Emission Unit

GPLPE General Permit to Limit Potential to Emit

HAP Hazardous Air Pollutant HLV Hazard Limiting Value

hr Hour lb Pound

MASC Maximum Allowable Stack Concentration

μg/m³ Micrograms per cubic meter

min minute MM Million

MMBTU Million British Thermal Units
MSDS Material Safety Data Sheets

 $\begin{array}{ccc} NO_x & Nitrogen\ Oxides \\ NSR & New\ Source\ Review \end{array}$

PM₁₀ Particulate Matter under 10 microns in diameter RACT Reasonably Available Control Technology RCSA Regulations of Connecticut State Agencies

SIC Source Identification Code SOS Standard Operating Scenario

SO_x Sulfur Oxides

T Number of hours the source is in continuous operation

TPY Tons per year

TSP Total Suspended Particulate
UA United Aluminum Corporation
VOC Volatile Organic Compound

Title V Operating Permit
All conditions in Sections III, IV, VI and VII of this permit are enforceable by both the Administrator and the Commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, VI and VII of this permit in accordance with the Clean Air Act (CAA), as amended.

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Finishing of specialty aluminum strip products

Primary SIC: 3353

Facility Mailing Address: 100 United Drive, North Haven, CT 06473

Telephone Number: 203-239-5881

B. PREMISES DESCRIPTION

United Aluminum Corporation (UA) finishes specialty aluminum strip products in which a coiled aluminum sheet is reduced in thickness to customer specifications. Specific processes that are utilized during finishing are cold rolling, annealing and slitting. The facility has two aluminum cold rolling mills (GEU-001) and four natural gas fired annealing furnaces (GEU-002). The facility also has the following equipment which do not require permits: six natural gas fired annealing furnaces, two electrically heated annealing furnaces, six slitters, two emergency engines, and a wastewater evaporator/concentrator.

On June 20, 2002 DEP sent a letter informing UA that the emergency engine previously registered under Registration No. 135-0111-GPEE did not require a registration under the new air regulations that became effective on March 15, 2002. The engine did not require a registration pursuant to RCSA §22a-174-3a(a)(1)(D) because it had potential emissions of any air pollutant less than 15 tons per year. On July 12, 2002, UA requested to withdraw their re-registration application for the emergency engine (EU-007) previously registered under Registration No. 135-0123-GPEE and stated that it will operate under RCSA §22a-174-3b.

On June 24, 2003, the DEP issued a consent order to UA, Consent Order No. 1764. Consent Order No. 1764 required UA to: submit an updated NSR permit application for rolling mill Z-23, an updated VOC RACT compliance plan, a statement affirming understanding of the terms and conditions of the GPLPE or request to withdraw the pending GPLPE application and submit a Title V Operating Permit application and pay a civil penalty.

On December 15, 2003 the NSR permit for rolling mill Z-23 was issued. On December 24, 2003 the request to withdraw the GPLPE application was submitted with the Title V Operating Permit application. UA is a Title V source pursuant to RCSA 22a-174-33(a)(10)(F)(ii) because they have potential emissions of NO_x greater than 50 tons per year.

Section II: Emissions Units Information

A. EMISSIONS UNITS DESCRIPTION

Emissions units are set forth in Table II.A

TABLE II.A: EMISSIONS UNITS DESCRIPTION					
Grouped Emission Units	Emissions Units	Emissions Unit Description	Control Unit Description	Permit Number/Regulation*	
GEU-001	EU-001	Aluminum Rolling Mill No. Z-23	Synthetic Fiber Filter	P-135-0136	
	EU-002	Aluminum Rolling Mill No. Z-24	Electrostatic Precipitator	P-135-0136	
GEU-002	EU-003	Furnace 1 UA Modified W. S. Rockwell Furnace	Not Applicable	P-135-0113	
GLC 002	EU-004	Furnace 2 UA Modified W. S. Rockwell Furnace	Not Applicable	P-135-0114	
	EU-005	Furnace 3 UA Modified W. S. Rockwell Furnace	Not Applicable	P-135-0115	
	EU-006	Furnace 11 UA Modified W. S. Rockwell Furnace	Not Applicable	P-135-0116	
	EU-007	Cummins-Onan Natural Gas Emergency Engine	Not Applicable	RCSA §22a-174-3b(e)	

^(*) It is not intended to incorporate by reference these NSR Permits, Orders, or Registrations into this Title V Operating Permit.

Section II: Emissions Units Information

B. OPERATING SCENARIO IDENTIFICATION

The Permittee shall be allowed to operate under the following standard operating scenario (SOS) without notifying the Commissioner, provided that such operations are explicitly provided for and described in the table below. The Permittee shall record contemporaneously, the operating scenario under which each emissions unit is operating in a log to be kept at the subject premises. There are no Alternate Operating Scenarios (AOS) for the premises.

TABLE II.B: OPERATING SCENARIO IDENTIFICATION			
Identification of Operating Scenarios	ating Associated with the		
	GEU-001	The Permittee operates two aluminum rolling mills.	
SOS	GEU-002	The Permittee operates four UA Modified W. S. Rockwell Furnaces fueled by natural gas.	
	EU-007	The Permittee operates a Cummins-Onan Natural Gas Emergency Engine.	

The following tables contain summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario, regulated by this Title V Operating Permit. Note: All conditions set forth in Section III of this Title V Operating Permit are federally enforceable.

A. GEU-001 (Aluminum Rolling Mills Nos. Z-23 and Z-24)

Table III.A: G	EU-001 (EU-001 and EU-002)		
Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
Maximum Net Rolling Lubricant Consumption	14,333.33 gal over any consecutive 12 month period Mill Nos. Z-23 and Z-24 combined	Permit No. 135-0136	A.1
Maximum Operating Condition	Mill No. Z-23: 2,600 ft/min, 2,910 amps Mill No. Z-24: 1,000 ft/min, 480 amps	Permit No. 135-0136	A.2
Particulate Matter (Oil Mist) Control Efficiencies	Mill No. Z-23 Control Type Synthetic Fiber Filter Control Efficiency 98.3% Collection Efficiency 90% Mill No. Z-24 Control Type Electrostatic Precipitator Control Efficiency 95% Collection Efficiency 90%	Permit No. 135-0136	A.3
VOC and TSP/PM ₁₀	Mill No. Z-23 Pollutant Ib/hr VOC 30.62 TSP/PM ₁₀ 0.30 Mill No. Z-24 Pollutant Ib/hr VOC 5.05 TSP/PM ₁₀ 0.30 Mills Z-23 and Z-24 Combined Pollutant TPY VOC 47.3 TSP/PM ₁₀ 1.3	Permit No. 135-0136	A.4
НАР	MASC=71.96*HLV*(5-4((T-0.5)/7.5)) Equation (1)	Permit No. 135-0136 and RCSA §22a- 174-29	A.5

Compliance Demonstration

A.1. Maximum Net Rolling Lubricant Consumption: The maximum net rolling lubricant consumption shall meet the limitation or restriction in condition A.1, Table III.A of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:

a. Monitoring and Testing Requirements

- 1. The Permittee shall use rolling lubricants of low vapor pressure, less than 1.0 mm Hg at one hundred degrees Fahrenheit (100°F). [Permit No. 135-0136]
- 2. The initial boiling point of the as-received oils shall be three hundred eighty degrees Fahrenheit (380°F) or greater. [Permit No. 135-0136]
- 3. The inlet or as-applied rolling lubricant temperature at the common supply to the mills shall not exceed one hundred fifty-five degrees Fahrenheit (155°F) and the Permittee shall monitor such temperature at all times that the mills are in operation. [Permit No. 135-0136]
- 4. All incoming shipments of oil shall be sampled and a distillation ranges test shall be performed using American Society for Testing and Materials (ASTM) Methods D86-99, Standard Method for Distillation of Petroleum Products or other methods approved by the Commissioner. Alternatively, the Permittee may use a certification from the oil supplier or a copy of a current contract specifying the initial boiling point and maximum vapor pressure as a condition for each shipment. The Permittee shall use the results of such test, supplier certification, or contract to demonstrate compliance with condition A.1.a.2 and A.1.a.3, Monitoring and Testing Requirements of this Title V Operating Permit. [Permit No. 135-0136]
- 5. Compliance with condition A.1.a.3, Monitoring and Testing Requirements of this Title V Operating Permit shall be met with continuous monitoring and recording of the average and maximum as-applied rolling lubricant temperature for each coil pass processed. [Permit No. 135-0136]

b. Record Keeping Requirements

- 1. The Permittee shall maintain material safety data sheets for any rolling lubricant used in the rolling mills on site for a period no less than three years and submitted to the Bureau upon request. Material safety data sheets or technical data sheets must include the quantity and type of each hazardous air pollutant contained in the rolling lubricant. [Permit No. 135-0136]
- 2. The Permittee shall keep records of the net rolling lubricant consumption in gallons. Net rolling lubricant consumption equals the gallons of make-up added to the system minus the sum of the gallons disposed with the lubricant filter media and the gallons disposed as manifested waste. Annual rolling lubricant consumption shall be based on any consecutive 12 month time period and shall be determined by adding the current month's lubricant net usage and that of the previous 11 months. The Permittee shall make these calculations monthly. [Permit No. 135-0136]
- 3. The Permittee shall keep records of the gallons of rolling lubricant added to the system each month. [Permit No. 135-0136]

- 4. The Permittee shall keep records of the quantity of rolling lubricant in gallons contained in the filter media disposed each month. [Permit No. 135-0136]
- 5. The Permittee shall keep records of the manifested quantity in gallons of rolling lubricant disposed each month. [Permit No. 135-0136]
- 6. The Permittee shall keep records of rolling lubricant formulations with identification of all oils and additives. [Permit No. 135-0136]
- 7. The Permittee shall keep records of the initial and final boiling points of the as—received rolling lubricant on a monthly basis. [Permit No. 135-0136]
- 8. The Permittee shall keep records on premises indicating continual compliance with all above conditions at all times and shall make them available upon request by the Commissioner for the duration of this permit, or for the previous five years, whichever is less. [Permit No. 135-0136]
- **A.2. Maximum Operating Condition:** The maximum operating condition shall not exceed the limits in condition A.2, Table III.A of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following:

Monitoring and Testing Requirements

The Permittee shall continuously monitor and record in a computerized database the average and maximum as-applied rolling lubricant temperature, the average and maximum mill amperage and the average and maximum speed for each coil pass processed. Database output shall be made available upon request of any representative of DEP. [Permit No. 135-0136]

A.3. Control Efficiencies: The control efficiencies shall not be less than the limits in condition A.3, Table III.A of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following:

Record Keeping Requirements

The Permittee shall keep records on when fabric filters are changed on Mill No. Z-23. [RCSA §22a-174-4(d)(1)]

- **A.4. Criteria Pollutants:** Criteria pollutant emissions shall not exceed the limits in condition A.3, Table III.A of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:
 - a. Monitoring and Testing Requirements

The Permittee shall demonstrate compliance by calculating the emission rates using emission factors from the following sources: [Permit No. 135-0136]

VOC & TSP/PM₁₀: Hourly emission rate was determined from 2001 stack test results. VOC & TSP/PM₁₀: Yearly emission rate was determined from material balance around aluminum

rolling mills Z-23 and Z-24.

b. Record Keeping Requirements

The Permittee shall keep records of criteria pollutant emissions. [RCSA §22a-174-4(d)(1)]

A.5. HAP: HAP emissions shall not exceed the limits in condition A.4, Table III.A of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:

a. Monitoring and Testing Requirements

- 1. The maximum allowable stack concentration (MASC) is derived using the HAPs corresponding HLV as listed in RCSA Section 22a-174-29 and is based on the stack parameters of the source. [Permit No. 135-0136 and RCSA §22a-174-29]
- The Actual Stack Concentration (ASC) shall be derived using the HAPs content as applied (lb HAP/gal), the maximum application rate (gal/hr) as a worst case, and any applicable controls.
 This gives the actual stack emissions in lb/hr which can be converted to a concentration in ug/m³ or ppmv. [Permit No. 135-0136]
- 3. The Permittee shall demonstrate that the HAPs ASC does not exceed the MASC for any chemical compounds used using Equation 1. [Permit No. 135-0136 and RCSA §22a-174-29]

b. Record Keeping Requirements

The Permittee shall keep records of all compounds used, and MSDS's or technical data sheets. [Permit No. 135-0136]

c. Reporting Requirements

The Permittee shall submit a report of any changes and a demonstration of compliance with permit limits, within 30 days of such changes, to the Department of Environmental Protection, Bureau of Air Management, Permit Section, 79 Elm Street, Hartford, Connecticut 06106-5127. [Permit No. 135-0136]

B. GEU-002 (4-UA Modified W. S. Rockwell Furnaces)

Table III.B: GEU-002 (EU-003-006)						
Pollutants or Process Parameters	Limitations or Restrictions				Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Maximum Natural Gas Consumption	71.4 MM ft ³ over any consecutive 12 month period (fuel limit is for combined furnaces)				Permit Nos. 135-0113, 135-0114, 135-0115 and 135-0116	B.1
Criteria Pollutants	Per Furnace:		Permit Nos. 135-0113, 135-0114, 135-0115	B.2		
	Pollutant	lb/hr	lb/MM BTU	TPY	and 135-0116	
	TSP	0.142	0.014	0.489		
	PM_{10}	0.142	0.014	0.489		
	SO_x	0.006	0.001	0.021		
	NO_x	1.456	0.140	4.998		
	VOC	0.029	0.003	0.099		
	СО	0.364	0.035	1.250		
MASC- Formaldehyde	4458.88 ug/	/m³			Permit Nos. 135-0113, 135-0114, 135-0115, 135-0116 and RCSA §22a-174-29	B.3

Compliance Demonstration

B.1. Maximum Natural Gas Consumption: The maximum natural gas consumption shall not exceed the limit in condition B.2, Table III.B of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:

a. Monitoring and Testing Requirements

The Permittee shall use a fuel metering device to continuously monitor fuel feed to the furnaces. [Permit Nos. 135-0113, 135-0114, 135-0115 and 135-0116]

b. Record Keeping Requirements

- 1. The Permittee shall keep records of annual fuel consumption for these furnaces that shall be based on any consecutive 12 month time period and shall be determined by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations monthly. [Permit Nos. 135-0113, 135-0114, 135-0115 and 135-0116]
- 2. The Permittee shall keep records of total annual fuel consumption for furnaces 1, 2, 3, and 11 (EU-003-006) that shall be based on any consecutive 12 month time period and shall be determined by adding the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations monthly. [Permit Nos. 135-0113, 135-0114, 135-0115 and 135-0116]
- 3. The Permittee shall keep records on the premises indicating continual compliance with all above conditions at all time and shall make them available upon request by the Commissioner of the duration of this permit, or for the previous five years, whichever is less. [Permit Nos. 135-0113, 135-0114, 135-0115 and 135-0116]
- **B.2.** Criteria Pollutants: The emissions of criteria pollutants shall not exceed the limit in condition B.2, Table III.B of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:

a. Monitoring and Testing Requirements

- 1. The Permittee shall demonstrate compliance with criteria pollutant emission limits by calculating the emission rates using emission factors from the following source: AP-42 fifth edition. [Permit Nos. 135-0113, 135-0114, 135-0115 and 135-0116]
- 2. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations. [Permit Nos. 135-0113, 135-0114, 135-0115 and 135-0116]

b. Record Keeping Requirements

The Permittee shall keep records of criteria pollutant emissions. [RCSA §22a-174-4(d)(1)]

B.3. MASC-Formaldehyde: The emission of formaldehyde shall not exceed the limit in condition B.3, Table III.B of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:

a. Monitoring and Testing Requirements

The Permittee shall demonstrate compliance with formaldehyde emission limit by calculating the emission rate using an emission factor from the following source: AP-42 fifth edition. [Permit Nos. 135-0113, 135-0114, 135-0115, 135-0116 and RCSA §22a-174-29]

b. Record Keeping Requirements

The Permittee shall keep records of formaldehyde emissions. [RCSA §22a-174-4(d)(1)]

C. EU-007 (Cummins-Onan Natural Gas Emergency Engine)

Table III.C: EU-007				
Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements	
Maximum Hours of Operation	500 hours during any 12 month rolling aggregate	RCSA §22a-174- 3b(e)(2)(A)	C.1	
Maximum Sulfur Content in Fuel	0.3% Sulfur by weight, dry basis	RCSA §22a-174- 3b(e)(2)(B)	C.2	
HAP	MASC will be the limitation for each HAP emitted	RCSA §22a-174-29	C.3	

Compliance Demonstration

C.1. Maximum Hours Operation: The maximum hours of operation shall not exceed the limit in condition C.1, Table III.C of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:

a. Monitoring and Testing Requirements

The Permittee shall not cause or allow the engine to operate except during periods of testing and scheduled maintenance or during and emergency. [RCSA §22a-174-3b(e)(2)(A)]

b. Record Keeping Requirements

- 1. The Permitee may make and maintain records of the hours of operation for each month and each 12 month rolling aggregate. [RCSA §22a-174-3b(e)(4)]
- 2. The Permittee shall maintain records of the information necessary to determine compliance with the limit in condition C.1, Table III.C of this Title V Operating Permit. [RCSA §22a-174-3b(e)(3)]

C.2. Maximum Sulfur Content in Fuel: The maximum sulfur content in fuel shall not exceed the limit in condition C.2, Table III.C of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following:

Record Keeping Requirements

The Permittee shall maintain records of the information necessary to determine compliance with the limit in condition C.2, Table III.C of this Title V Operating Permit. [RCSA §22a-174-3b(e)(3)]

- **C.3. HAP:** The HAP emissions shall not exceed the limit in condition C.3, Table III.C of this Title V Operating Permit. Demonstration of compliance shall be based on, but not limited to, the following requirements:
 - a. Monitoring and Testing Requirements
 - 1. The MASC is derived using the HAPs corresponding HLV as listed in RCSA Section 22a-174-29 and is based on the stack parameters of the source. [RCSA §22a-174-29(c)]
 - 2. The Permittee shall not cause or permit the emission of any HAP listed in RCSA §22a-174-29, Table 29-1 from any stationary source at a concentration at the discharge point in excess of the MASC. [RCSA §22a-174-29(b)]
 - b. Record Keeping Requirements
 - 1. The Permittee shall keep records of MASC for each HAP emitted. [RCSA §22a-174-4(d)(1)]
 - 2. The Permittee shall keep records of the ASC for each HAP emitted. [RCSA §22a-174-4(d)(1)]

D. PREMISES-WIDE GENERAL REQUIREMENTS

Table III.D: Pl	Table III.D: PREMISES-WIDE GENERAL REQUIREMENTS			
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements		
Annual Emission Statements	RCSA §22a-174-4	The Permittee shall submit annual emission inventory statements requested by the Commissioner as specified in RCSA §22a-174-4(d)(1).		
Operation of Air Pollution Control Equipment and Monitoring Equipment	RCSA §22a-174-7	 i. While a stationary source is in operation, the Permittee shall not deliberately shut down any operational air pollution control or monitoring equipment or deliberately keep such air pollution control equipment or monitoring equipment shut down except to perform necessary maintenance, which cannot be accomplished when the stationary source itself is not in operation and is not emitting air pollutants. [RCSA \$22a-174-7(b)(1)] ii. The Permittee may deliberately shut down air pollution control equipment or monitoring equipment while the source is in operation if: [RCSA \$22a-174-7(b)(2)] a. The Permittee is not required to operate such equipment by a permit, order or regulation; b. The source is in compliance with applicable emission limitations and emission standards while the air pollution control equipment is shut down; and c. Emissions released while monitoring equipment that measures such emissions is deliberately shut down are not used to calculate credits generated in an emissions credit trading program. iii. If any breakdown, failure or deliberate shutdown of air pollution control equipment or monitoring equipment required by permit, order or regulation continues for more than 24 hours and the source operates at any time after the expiration of 24 hours and during source operation after the breakdown, failure or deliberate shutdown an exceedance of any emission limitation or standard occurs, the Permittee shall submit a written notice to the commissioner post marked within 10 days of the commencement of the breakdown, failure or deliberate shutdown. Such written notice shall include, but is not limited to, the following: [RCSA \$22a-174-7(d)] a. Identification of the specific air pollution control or monitoring equipment subject to the breakdown, failure or deliberate shutdown, as well as information concerning its location, and where applicable, registration or permit number; b. The date, time, duration, explanation and description of		

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Table III.D: PREMISES-WIDE GENERAL REQUIREMENTS, continued			
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements	
		 e. A description of all measures that the Permittee has taken or will take to resume operation of the air pollution control or monitoring equipment; and f. A description of all measures taken and continuing to be taken to minimize the length of the shutdown period such as the use of off-shift labor and equipment. 	
Emergency Episode Procedures	RCSA §22a-174-6	The Permittee shall comply with the procedures for emergency episodes as specified in RCSA § 22a-174-6.	
Prohibition of Air Pollution	40 CFR Part 60 or 61 RCSA §22a-174-9 CGS §22a-184	 i. The Permittee shall not permit or cause air pollution as defined in RCSA §22a-174-1. This applies to all air pollutants including those not otherwise covered by the RCSA §22a-174-1 through §22a-174-100. ii. The Permittee shall operate its premises in accordance with all applicable emissions standards, standards of performance, and any other applicable requirements under 40 CFR Part 60 or 61. 	
Public Availability of Information	RCSA §22a-174-10	The public availability of information shall apply, as specified in RCSA § 22a-174-10.	
Prohibition against Concealment/circumvention	RCSA §22a-174-11	The Permittee shall comply with the prohibition against concealment or circumvention as specified in RCSA §22a-174-11.	
Fugitive Dust	RCSA §22a-174-18(c)	The Permittee shall take all reasonable precautions to prevent particulate matter from becoming airborne pursuant to RCSA §22a-174-18.	
Opacity	RCSA §22a-174-18(b)	 i. The Permittee shall ensure opacity is less than 20% during any six-minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9; or ii. The Permittee shall ensure opacity is no more than 40% as measured by 40 CFR 60, Appendix A, Reference Method 9, reduced to a one-minute block average. 	
NO_x	RCSA §22a-174-22(b)(5)	The Permittee shall not operate an engine for routine, scheduled testing or maintenance on any day for which the Commissioner has forecast that ozone levels will be "moderate to unhealthful," "unhealthful," or "very unhealthful."	
Emission Fees	RCSA §22a-174-26	The Permittee shall pay an emission fee in accordance with RCSA §22a-174-26(d).	

Section IV: Compliance Schedule

NOT APPLICABLE

Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

- **A.** This permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Environmental Protection or any federal, local or other state agency. Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- **B.** Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the Commissioner.
- C. Odors: The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor beyond the property boundary of the premises as set forth in RCSA §22a-174-23.
- **D.** Noise: The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §22a-69-1 through 22a-69-7.4, inclusive.
- **E.** Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.
- **F.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- **G.** Fuel Sulfur Content: The Permittee shall not use # 2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS §16a-21a.
- **H.** Climate Change: In accordance with Public Act No. 04-525 Sec. 3 paragraph (b), not later than April 15, 2006, and annually thereafter, the owner or operator of any facility that is required to report air emissions data to the Department of Environmental Protection pursuant to Title V of the federal Clean Air Act and that has stationary emissions sources that emit greenhouse gases shall report to the regional registry direct stack emissions of greenhouse gases from such sources. The owner or operator shall report all greenhouse gas emissions in a type and format that the regional registry can accommodate.

Section VI: Permit Shield

NO PERMIT SHIELD GRANTED

The Administrator of the United States Environmental Protection Agency and the Commissioner of Environmental Protection have the authority to enforce the terms and conditions contained in these sections.

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the Commissioner of any document required by this Title V Operating Permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this Title V Operating Permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this Title V Operating Permit, the word "day" means calendar day. Any document or action which is required by this Title V Operating Permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the Commissioner under this Title V Operating Permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of the Assistant Director; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the U. S. Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; US EPA, Region 1; One Congress Street; Suite 1100 (SEA); Boston, MA 02114-2023.

B. CERTIFICATIONS [RCSA §22a-174-33(b)]

In accordance with RCSA §22a-174-33(b), any report or other document required by this Title V Operating Permit and any other information submitted to the Commissioner or Administrator shall be signed by an individual described in RCSA §22a-174-2a(a), or by a duly authorized representative of such individual. Any individual signing any document pursuant to RCSA §22a-174-33(b) shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in RCSA §22a-174-2a(a)(5):

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute."

C. SIGNATORY RESPONSIBILITY [RCSA §22a-174-2a(a)]

If an authorization pursuant to RCSA §22a-174-2a(a) is no longer effective because a different individual or position has assumed the applicable responsibility, a new authorization satisfying the requirements of RCSA §22a-174-2a(a)(2) shall be submitted to the Commissioner prior to or together with the submission of any applications, reports, forms, compliance certifications, documents or other information which is signed by an individual or a duly authorized representative of such individual pursuant to RCSA §22a-174-2a(a)(2).

D. ADDITIONAL INFORMATION [RCSA §22a-174-33(j)(1)(X)]

The Permittee shall submit additional information in writing, at the Commissioner's request, within thirty (30) days of receipt of notice from the Commissioner or by such other date specified by the Commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending the permit or to determine compliance with the permit.

In addition, within fifteen days of the date the Permittee becomes aware of a change in any information submitted to the Commissioner under this Title V Operating Permit or of any change in any information contained in the application, or that any such information was inaccurate or misleading or that any relevant information was omitted, the Permittee shall submit the changed, corrected, or omitted information to the Commissioner.

E. MONITORING REPORTS [RCSA §22a-174-33(o)(1)]

A Permittee, required to perform monitoring pursuant this Title V Operating Permit, shall submit to the Commissioner, on forms prescribed by the Commissioner, written monitoring reports on January 30 and July 30 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

- 1. Each deviation caused by upset or control equipment deficiencies; and
- 2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this Title V Operating Permit, which has occurred since the date of the last monitoring report; and
- 3. Each deviation caused by a failure of the monitoring system to provide reliable data.

F. PREMISES RECORDS [RCSA §22a-174-33(o)(2)]

Unless otherwise required by this Title V Operating Permit, the Permittee shall make and keep records of all required monitoring data and supporting information for at least 5 years from the date such data and information were obtained. The Permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the Commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

- 1. The type of monitoring or records used to obtain such data, including record keeping;
- 2. The date, place, and time of sampling or measurement:
- 3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
- 4. The date(s) on which analyses of such samples or measurements were performed;
- 5. The name and address of the entity that performed the analyses;
- 6. The analytical techniques or methods used for such analyses;
- 7. The results of such analyses;

- 8. The operating conditions at the subject source at the time of such sampling or measurement; and
- 9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

G. PROGRESS REPORTS [RCSA $\S 22a-174-33(\mathfrak{q})(1)$]

The Permittee shall, on January 30 and July 30 of each year, or on a more frequent schedule if specified in this Title V Operating Permit, submit to the Commissioner a progress report on forms prescribed by the Commissioner, and certified in accordance with RCSA §22a-174-2a(a)(5). Such report shall describe the Permittee's progress in achieving compliance under the compliance plan schedule contained in this Title V Operating Permit. Such progress report shall:

- 1. Identify those obligations under the compliance plan schedule in the permit which the Permittee has met, and the dates on which they were met; and
- 2. Identify those obligations under the compliance plan schedule in this Title V Operating Permit which the Permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the Permittee expects to meet them.

Any progress report prepared and submitted pursuant to RCSA §22a-174-33(q)(1) shall be simultaneously submitted by the Permittee to the Administrator.

H. COMPLIANCE CERTIFICATIONS [RCSA §22a-174-33(q)(2)]

The Permittee shall, on January 30 of each year, or on a more frequent schedule if specified in this Title V Operating Permit, submit to the Commissioner, a written compliance certification certified in accordance with RCSA §22a-174-2a(a)(5) and which includes the information identified in Title 40 CFR 70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to RCSA §22a-174-33(q)(2) shall be simultaneously submitted by the Permittee to the Administrator.

I. PERMIT DEVIATION NOTIFICATIONS [RCSA §22a-174-33(p)]

Notwithstanding Subsection D of Section VII of this Title V Operating Permit, the Permittee shall notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

- 1. For any hazardous air pollutant, no later than 24 hours after such deviation commenced; and
- 2. For any other regulated air pollutant, no later than 10 days after such deviation commenced.

J. PERMIT RENEWAL [RCSA §22a-174-33(j)(1)(B)]

All of the terms and conditions of this Title V Operating Permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with RCSA §22a –174-33(g), -33(h), and –33(i).

K. OPERATE IN COMPLIANCE [RCSA §22a-174-33(j)(1)(C)]

The Permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this Title V Operating Permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA §22a-174-33(j)(1)(G)]

This Title V Operating Permit shall not be deemed to:

- 1. Preclude the creation or use of emission reduction credits or the trading of such credits in accordance with RCSA §22a-174-33(j)(1)(I) and 22a-174-33(j)(1)(P), provided that the Commissioner's prior written approval of the creation, use, or trading is obtained;
- 2. Authorize emissions of an air pollutant so as to exceed levels prohibited under 40 CFR Part 72;
- 3. Authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
- 4. Impose limits on emissions from items or activities specified in RCSA §22a-174-33(g)(3)(A) and (B) unless imposition of such limits is required by an applicable requirement.

M. INSPECTION TO DETERMINE COMPLIANCE [RCSA §22a-174-33(j)(1)(M)]

The Commissioner may, for the purpose of determining compliance with the permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under the permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this Title V Operating Permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

The Permittee shall have available at the facility at all times a copy of this Title V Operating Permit.

O. SEVERABILITY CLAUSE [RCSA $\S 22a-174-33(j)(1)(R)$]

The provisions of this Title V Operating Permit are severable. If any provision of this Title V Operating Permit or the application of any provision of this Title V Operating Permit to any circumstance is held invalid, the remainder of this Title V Operating Permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA §22a-174-33(j)(1)(T)]

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Title V Operating Permit.

Q. PERMIT REQUIREMENTS [RCSA §22a-174-33(j)(1)(V)]

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the Permittee's obligation to comply with this Title V Operating Permit.

R. PROPERTY RIGHTS [RCSA §22a-174-33(j)(1)(W)]

This Title V Operating Permit does not convey any property rights or any exclusive privileges. This Title V Operating Permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including Section 4-181a(b) of the Connecticut General Statutes and RCSA §22a-3a-5(b). This Title V Operating Permit shall neither create nor affect any rights of persons who are not parties to this Title V Operating Permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA §22a-174-33(o)(3)]

The Permittee shall, contemporaneously with making a change authorized by this Title V Operating Permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA §22a-174-33(r)(2)]

The Permittee may engage in any action allowed by the Administrator in accordance with 40 CFR 70.4(b)(12)(i) to (iii)(B) inclusive, and 40 CFR 70.4(b)(14)(i) to (iv), inclusive without a Title V Operating Permit non-minor permit modification, minor permit modification or revision and without requesting a Title V Operating Permit non-minor permit modification, minor permit modification or revision provided such action does not:

- 1. Constitute a modification under 40 CFR 60, 61 or 63,
- 2. Exceed emissions allowable under the subject permit,
- 3. Constitute an action which would subject the Permittee to any standard or other requirement pursuant to 40 CFR 72 to 78, inclusive, or
- 4. Constitute a non-minor permit modification pursuant to RCSA §22a-174-2a(d)(4).

At least seven days before initiating an action specified in RCSA §22a-174-33(r)(2)(A), the Permittee shall notify the Administrator and the Commissioner in writing of such intended action.

U. INFORMATION FOR NOTIFICATION [RCSA §22a-174-33(r)(2)(A)]

Written notification required under RCSA §22a-174-33(r)(2)(A) shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V Operating Permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The Permittee shall thereafter maintain a copy of such notice with the Title V Operating Permit. The Commissioner and the Permittee shall each attach a copy of such notice to their copy of the permit.

V. TRANSFERS [RCSA §22a-174-2a(g)]

No person other than the Permittee shall act or refrain from acting under the authority of this Title V Operating Permit unless this Title V Operating Permit has been transferred to another person in accordance with RCSA §22a-174-2a(g).

The proposed transferor and transfere of a permit shall submit to the Commissioner a request for a permit transfer on a form provided by the Commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The Commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS Section 22a-6m.

W. REVOCATION [RCSA §22a-174-2a(h)]

The Commissioner may revoke this Title V Operating Permit on his own initiative or on the request of the Permittee or any other person, in accordance with Section 4-182(c) of the Connecticut General Statutes, RCSA §22a-3a-5(d), and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The Permittee requesting revocation of this Title V Operating Permit shall state the requested date of revocation and provide the Commissioner with satisfactory evidence that the emissions authorized by this Title V Operating Permit have been permanently eliminated.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this Title V Operating Permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this Title V Operating Permit if the Administrator has determined that the Commissioner failed to act in a timely manner on a permit renewal application.

This Title V Operating Permit may be modified, revoked, reopened, reissued, or suspended by the Commissioner, or the Administrator in accordance with RCSA §22a-174-33(r), Connecticut General Statutes Section 22a-174c, or RCSA §22a-3a-5(d).

X. REOPENING FOR CAUSE [RCSA §22a-174-33(s)]

This Title V Operating Permit may be reopened by the Commissioner, or the Administrator in accordance with RCSA §22a-174-33(s).

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this Title V Operating Permit, for the purpose of determining compliance or establishing whether a Permittee has violated or is in violation of any permit condition, nothing in this Title V Operating Permit shall preclude the use, including the exclusive use, of any credible evidence or information.